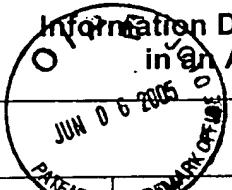


PTO-1449	Application No.	Applicant(s)	
 JUN 06 2005	10/006,001	Mohammed N. Islam	
	Docket Number	Group Art Unit	Filing Date
	074036.0113	2142	December 3, 2001

## U.S. PATENT DOCUMENTS

	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
A	4,941,747	07/17/1990	Dakin	356	346	02/10/1989
B	5,796,504	08/18/1998	Sonderegger et al.	359	144	03/13/1996
C	5,886,313	03/23/1999	Krause et al.	219	121.6	02/29/1996
D	6,356,544 B1	03/12/2002	O'Connor	370	353	05/03/1999
E	6,525,850 B1	02/25/2003	Chang et al.	359	124	06/25/1999
F	6,826,368 B1	11/30/2004	Koren et al.	398	50	10/20/1998
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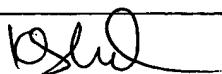
## FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	YES	NO
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P								

## NON-PATENT DOCUMENTS

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
Q	Islam, "Optical Routing Using a Star Switching Fabric," U.S. Appln. Ser. No. 10/653,525, currently pending, 70 pages	09/02/2003
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		Docket Number <b>068069.0116</b>			Group Art Unit	Filing Date <b>December 3, 2001</b>

**U.S. PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
(G)	A	3,986,020	10/12/1976	Kogelnik	250	199	09/25/1975
	B	4,797,879	01/10/1989	Habbab et al.	370	3	06/05/1987
	C	4,873,681	10/10/1989	Arthurs et al.	370	3	01/26/1988
	D	4,970,714	11/13/1990	Chen et al.	370	17	01/05/1989
	E	5,005,167	04/02/1991	Arthurs et al.	370	4	10/11/1989
	F	5,063,612	11/05/1991	McKeown	455	607	08/03/1990
	G	5,140,655	08/18/1992	Bergmann	359	120	12/28/1990
	H	5,093,743	03/03/1992	Eng et al.,	359	578	02/21/1989
	I	5,103,340	04/07/1992	Dono et al.	385	46	08/07/1991
	J	5,191,626	03/02/1993	Stern	385	24	04/22/1991
	K	5,206,638	04/27/1993	McKeown	340	825.510	01/28/1991
	L	5,257,113	10/26/1993	Chen et al.	358	426	09/20/1991
	M	5,301,052	04/05/1994	Audouin et al.	359	124	01/24/1992
	N	5,343,542	08/30/1994	Kash et al.	385	31	04/22/1993
(G)	O	5,361,254	5,361,254	Storck et al.	370	57	11/30/1992

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
(G)	P	0 412 220 A1	11/08/1989	EP	H04L	12/44	X	
(G)	Q	0 439 646 A1	30/01/1990	EP	H04L	12/44	X	
(G)	R	0 419 840 A2	22/08/1990	EP	H04L	12/56	X	

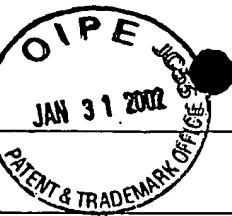
**NON-PATENT DOCUMENTS**

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
(G)	S Arthurs et al., "HYPASS: An Optoelectronic Hybrid Packet Switching System," IEEE Journal on Selected Areas in Communications, Vol. 6, No. 9, pp. 1500-1510	12/1988
EXAMINER <i>Kdl</i>	DATE CONSIDERED <i>8/18/05</i>	

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		Docket Number <b>068069.0116</b>	Group Art Unit
			Filing Date <b>December 3, 2001</b>

**U.S. PATENT DOCUMENTS**

		<b>DOCUMENT NO.</b>	<b>DATE</b>	<b>NAME</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>FILING DATE</b>
10	A	5,452,115	09/19/1995	Tomioka	359	123	04/22/1994
	B	5,455,699	10/03/1995	Glance et al.	359	125	12/21/1993
	C	5,455,701	10/03/1995	Eng et al.	359	135	03/28/1994
	D	5,485,297	01/16/1996	Sotom	359	123	10/09/1992
	E	5,500,858	03/19/1996	McKeown	370	60	12/20/1994
	F	5,506,712	04/09/1996	Sasayama et al.	359	123	07/14/1994
	G	5,515,361	05/07/1996	Li et al.	370	15	02/24/1995
	H	5,519,526	05/21/1996	Chua et al.	359	152	10/21/1992
	I	5,521,732	05/28/1996	Nishio	359	120	06/08/1994
	J	5,539,559	07/23/1996	Cisneros et al.	359	117	08/21/1992
	K	5,729,527	03/17/1998	Gerstel et al.	370	228	03/19/1996
	L	5,739,945	04/14/1998	Tayebati	359	291	09/27/1996
	M	5,781,537	07/14/1998	Ramaswami et al.	370	254	07/07/1995
	N	5,793,746	08/11/1998	Gerstel et al.	370	228	04/29/1996
10	O	5,825,949	10/20/1998	Choy et al.	385	24	04/03/1997

**FOREIGN PATENT DOCUMENTS**

		<b>DOCUMENT NO.</b>	<b>DATE</b>	<b>COUNTRY</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>TRANSLATION</b>	
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10	P	2-278132	14/11/1990	JP	H01S	003/08	X	
	Q	6-350563	22/12/1994	JP	H04J	014/02	X	
	R	0 667 690 A2	24/01/1995	EP	H04J	14/02	X	

**NON-PATENT DOCUMENTS**

	<b>DOCUMENT (Including Author, Title, Source, and Pertinent Pages)</b>	<b>DATE</b>
10	S Chen et al., "A Media-Access Protocol for Packet-Switched Wavelength Division Multiaccess Metropolitan Area Networks," IEEE Journal on Selected Areas in Communications, Vol. 8, No. 6, pp. 1048-1057	08/1990

<b>EXAMINER</b> <i>[Signature]</i>	<b>DATE CONSIDERED</b> <i>8/18/05</i>
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		Docket Number 068069.0116	Group Art Unit Filing Date December 3, 2001

## U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
15	A	5,847,852	12/08/1998	Domon et al.	359	118	03/05/1997
	B	5,864,414	01/26/1999	Barnsley et al.	359	125	07/26/1996
	C	5,889,600	03/30/1999	McGuire	359	128	10/24/1994
	D	5,915,054	06/22/1999	Ota	385	46	06/02/1995
	E	55,923,644	07/13/1999	McKeown et al.	370	230	10/03/1996
	F	5,926,299	07/20/1999	Bayart et al.	359	121	12/24/1996
	G	5,949,801	09/07/1999	Tayebati	372	20	07/22/1998
	H	6,025,944	02/15/2000	Mendez et al.	359	136	03/27/1997
	I	6,025,950	02/15/2000	Tayebati et al.	359	244	07/27/1998
	J	6,041,071	03/21/2000	Tayebati	372	64	09/27/1996
	K	6,097,533	08/01/2000	Atlas	359	337	10/21/1997
	L	6,108,112	08/22/2000	Touma	359	110	09/23/1997
	M	6,108,311	08/22/2000	Ramaswami et al.	370	258	04/29/1996
	N	6,147,786	11/14/2000	Pan	359	124	02/20/1998
	O	6,192,173 B1	02/20/2001	Solheim et al.	285	24	06/02/1999

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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15	P	8-163048	21/06/1996	JP	H04J	014/02	X	
	Q	9-326780	16/12/1997	JP	H04J	014/02	X	
	R	98/05995	12/02/1998	WO	G02F	1/00	X	

## NON-PATENT DOCUMENTS

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
15	S "39.5 Million-Way WDM Broadcast Network Employing Two Stages of Erbium-Doped Fibre Amplifiers," Electronics Letters, Vol. 26, No. 22, pp. 1882-1884	10/25/1990
EXAMINER <i>osh</i>	DATE CONSIDERED <i>9/18/05</i>	

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		Docket Number 068069.0116	Group Art Unit	Filing Date December 3, 2001

## U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
109	A	6,212,182 B1	04/03/2001	McKeown	370	390	06/27/1996
109	B	6,301,274 B1	10/09/2001	Tayebati et al.	372	20	03/30/1999
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## FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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109	J	99/56433	04/11/1999	WO	H04L	12/00	X
	K	99/22496	06/05/1999	WO	H04L	12/44	X
	L	00/05832	03/02/2000	WO	G02B	6/26	X
	M	01/15368 A2	01/03/2001	WO	H04J	14/02	X
	N	01/18576 A1	15/03/2001	WO	H04J	14/00	X

## NON-PATENT DOCUMENTS

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
109	O "39.81 Gbit/s, 43.8 Million-Way WDM Broadcast Network with 527 km Range," Electronics Letters, Vol. 27, No. 22, pp. 2051-2053	10/24/1991
109	P Appleton et al., "Modelling WDM Video Distributive Networks," The Institution of Electrical Engineers," pp. 1-4	1993
109	Q Agrawal, "Fiber-Optic Communication Systems," A Wiley-Interscience Publication, The Institute of Optics University of Rochester NY, pp. 284-360	1997
109	R Ford et al., "Fiber-Coupled Variable Attenuator Using a MARS Modulator," Invited Paper, SPIE, Vol. 3226, pp. 86-93	1997
109	S Sadot et al., "Tunable Optical Filters for Dense WDM Networks," IEEE Communications Magazine, pp. 50-55	12/1998

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DATE CONSIDERED

8/18/05

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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		Docket Number <b>068069.0116</b>		Filing Date <b>December 3, 2001</b>

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## FOREIGN PATENT DOCUMENTS

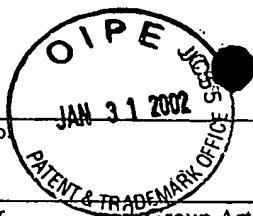
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## NON-PATENT DOCUMENTS

	<b>DOCUMENT (Including Author, Title, Source, and Pertinent Pages)</b>	<b>DATE</b>
C	Carena et al., "OPERA: An Optical Packet Experimental Routing Architecture with Label Swapping Capability," <u>Journal of Lightwave Technology</u> , Vol. 16, No. 12, pp. 2135-2145	12/1998
D	Misawa et al. "WDM Knockout Switch with Multi-Output-Port Wavelength-Channel Selectors," <u>Journal of Lightwave Technology</u> , Vol. 16, No. 12, pp. 2212-2219	12/1998
E	Sadot et al., "Optical Switching Speed Requirements for Terabit/Sec Packet Over WDM Networks," <u>ECOC</u>	1999
F	Elhanany et al., "A Novel Tbit/sec Switch Architecture for ATM/WDM High-Speed Networks," <u>IEEE/IEICE ATM Workshop, Japan</u> , pp. 97-101	1999
G	Elhanany et al., "Tbit/s switching scheme for ATM/WDM networks," <u>Electronics Letters</u> , Vol. 35, No. 1, 2 pages	01/07/1999
H	"A New Architecture for Switch and Router Design," <u>PMC-Sierra, Inc.</u> , pp. 1-8	12/22/1999
I	Tsukada et al., "WDM/SCM Broadcast-and-select Architecture for Streaming-media," <u>IEEE</u> , pp. 358-359	2000
J	Pesach et al., "Free-space optical cross-connect switch by use of electroholography," <u>Applied Optics</u> , Vol. 39, No. 5, pp. 746-758	02/10/2000
K	Sadot et al., "Optical Switching Speed Requirements for Terabit/Second Packet Over WDM Networks," <u>IEEE Photonics Technology Letters</u> , Vol. 12, No. 4, pp. 440-442	04/2000
L	Goossen, "MEMS-Based Variable Optical Interference Device," <u>IEEE</u> , Invited MB1, pp. 17-18	08/2000
M	Shrikhande et al., "HORNET: A Packet-Over-WDM Multiple Access Metropolitan Area Ring Network," <u>IEEE Journal on Selected Areas in Communications</u> , Vol. 18, No. 10, pp. 2004-2016	10/2000
N	McKeown, "A quick tutorial on IP Router design," <u>Optics and Routing Seminar</u> , pp. 1-42	10/10/2000
O	McKeown, "How might optics be used in IP routers and the Internet?," <u>Optics and Routing Seminar</u> , pp. 1-36	10/24/2000
P	Chao et al., "An Optical Interconnection Network for Terabit IP Routers," <u>Journal of Lightwave Technology</u> , Vol. 18, No. 12, pp. 2095-2112	12/2000
Q	Elhanany et al., "A Prioritized Packet Scheduling Architecture for Provision of Quality-of-Service in Tbit/sec WDM Networks," <u>IEEE</u> , pp. 695-700	2000
R	Plastow et al., "Tunable lasers key to data-network migration," <u>Lightwave</u> , www.light-wave.com, pp. 148-152	03/2001
S	Dhar, "Seamless Optical Scaling: Enabling a Dynamic Network," <u>Fiberoptic Product News</u>	08/2001
EXAMINER	DATE CONSIDERED	
<i>rsd</i>	<i>8/19/05</i>	

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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## U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO
	B						

## NON-PATENT DOCUMENTS

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
19	C Dhar et al., "Tunable lasers create dynamic networking capabilities," WDM Solutions, pp. 82, 84, 86, and 88	09/2001
19	D Nowak et al., "Stable supercontinuum generation in short lengths of conventional dispersion-shifted fiber," Department of Electrical Engineering and Computer Science, The University of Michigan, pp. 1-20	
19	E Nowak et al., "Stable 200nm TDM/WDM source based on continuum generation in 2m of fiber," Department of Electrical Engineering and Computer Science, The University of Michigan, pp. 1-13	
19	F "Comparison of Techniques for Multi-Tb/s TDM/WDM Source," The University of Michigan	
19	G Bayne et al., "Broadcast-and-select OADM enables low-cost transparency," LIGHTWAVE, www.light.wave.com, pp. 69-74	12/2001
19	H "Corning Discovering Beyond Imagination," Presented at STARTRAX, 13 pages	2001
19	I Fernandez et al., "TCP Switching: Exposing Circuits to IP," Stanford University, pp. 1-6	
19	J Walker et al., "Mechanical Anti-Reflection Switch (MARS) Device for Fiber-In-the-Loop Applications," Invited FA1, pp. 59-60	
19	K McKeown, "Fast Switched Backplane for a Gigabit Switched Router," Department of Electrical Engineering, Standford University, CA, pp. 1-30	
19	L "Broadcast and Distribution Networks," 7.1.2, pp. 289-297	
19	M McKeown et al., "The Two-Stage Switch," Leland Stanford Junior University, 12 pages	
19	N Fernandez, "Where Does Circuit Switching Make Sense In the Internet?," High Performance Networking Group, Stanford University, 19 pages	
19	O Pending patent application, USSN 10/004,095, (068069.0114), entitled "Optical Routing Using a Star Switching Fabric," by Islam et al., pp. 1-92	12/03/2001 Filed
19	P Pending provisional patent application, USSN 60/336,779, (068069.0115), entitled "High Speed MEMS Device," by Islam et al., pp. 1-	12/03/2001 Filed
19	Q Pending patent application, USSN 10/005,998, (068069.0117), entitled "Method and Apparatus for Scheduling Communication Using a Star Switching Fabric," by Islam, pp. 1-83	12/03/2001 Filed
19	R Pending patent application, USSN 10/004,996, (068069.0118), entitled "Broadcast and Select Optical Networking," by Islam et al., pp. 1-63	12/03/2001 Filed

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